

S/135/61/000/002/009/012  
A306/A001

AUTHOR: Voshchanov, K. P., Engineer

TITLE: Repair of the Front Traverse of a Horizontal 5,000-Ton Press

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 2, pp. 35-36

TEXT: The front traverse of a horizontal press is a 44-ton cast part made of steel which contains: 0.34% C; 0.32-0.37% Si; 0.66-0.68% Mn; 0.04% S and 0.025% P. After four years of operation, four 350 - 590 mm long cracks were revealed on the internal surfaces of the central bushing located in the corners of the rectangular apertures in (Fig. 1). The sole means of repairing the cracks was welding-up by heating the traverse to 450°C and by subsequent heating to 650°C for stress elimination. Repair by this technology was extremely difficult due to the fact that the spots to be welded were located inside the traverse where the welding operator was not able to work at the given temperature. Therefore a special furnace was developed for the heating, welding and heat treating of the traverse (Fig. 2). The furnace, consisting of a metal carcass with refractory brick lining, was mounted around the traverse which was placed on a refractory shield on the shop floor. The furnace walls were 500 mm thick. The heating coils were located

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in special horizontal grooves along the vertical furnace walls. Normal work conditions inside the traverse were established by introducing a special hollow two-wall water-cooled aluminum screen with apertures at the spots to be welded; outside a ventilator was placed which pulling the air through the central aperture, exhausted the gases formed during welding and produced a cold air flow. To eliminate the defects of the operation assembly of the traverse, it was intended to reinforce its central portion by welding 135 mm thick "35st." steel inserts into the rectangular apertures. The cracks and insert edges were chamfered with gas cutters by heating the traverse to 150°C. The inserts were placed on backing plates and fastened to the chamfered edges of the cracks. First the cracks and then the inserts were welded-up with d-c of reverse polarity using УОИИ-13/55 (UONI-13/55) electrode bundles and a ПСМ-1000 (PSM-1000) generator. The gap was filled by the cascade method by multi-layer seams. During welding, the seams were peened with a pneumatic chisel by specially trained locksmiths. About 120 kg of metal were built up on each crack. Subsequently the traverse was tempered at 650°C for 3 hours to eliminate internal stresses. After the intermediate heat treatment, the temperature was reduced to 450 - 420°C and the steel inserts were welded into the apertures, by a system shown in Figure 4. The traverse was then subjected to

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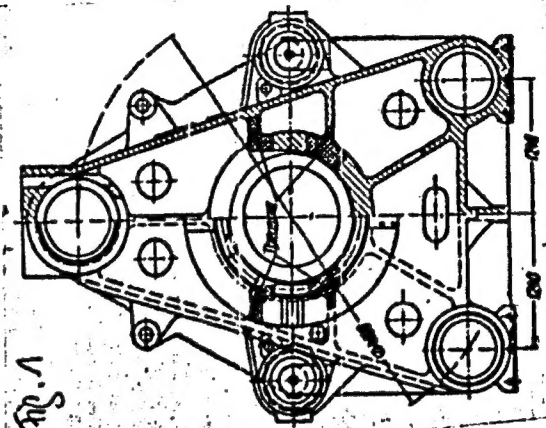
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final high-temperature tempering at 650°C and to cooling in the furnace during four days. The furnace was then removed. A control of the traverse did not reveal any inadmissible deformations or changes in dimensions. The repaired traverse has been operating normally for 12 months.

Figure 1:

## Figure 1

General view of a 5,000-ton press traverse. The dotted lines show the location of cracks in the corners of the technological apertures.



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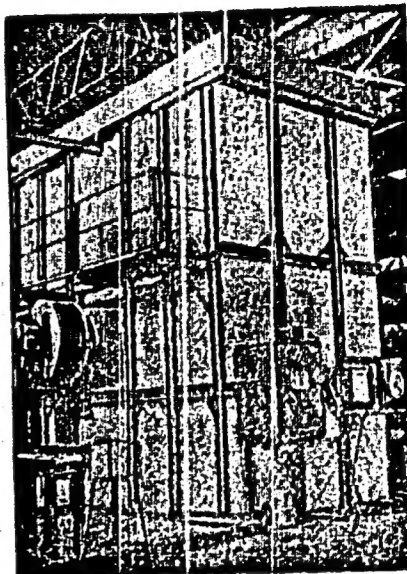
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Figure 2

General view of a furnace from the side of the exhaust fan.

Figure 2:



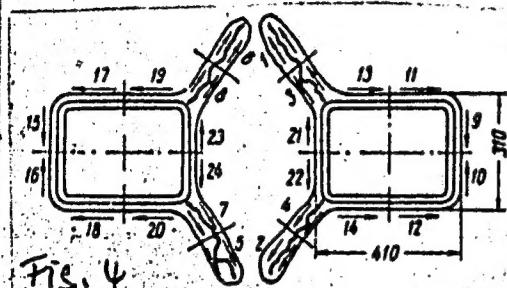
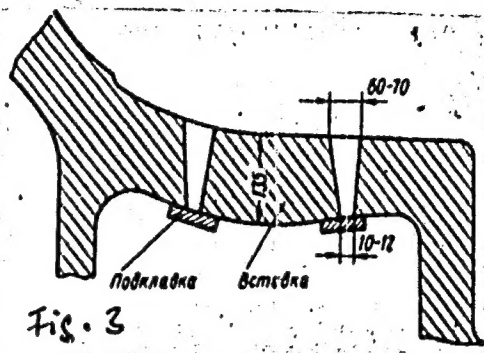
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**Figure 3**

Schematic representation of mounting the inserts on backing strips:



**Figure 4**

Schematic drawing of welding-up cracks and direction of welding. The figures indicate the sequence, and the arrows the direction of welding. There are 4 figures.

ASSOCIATION: Tsentral'nyye eksperimental'nyye svarochnyye masterskiye VNIIAVTOGENa  
Card 5/5 (VNIIAVTOGEN Central Experimental Welding Shops)

YOSHCHANOV, Konstantin Pavlovich; KIRILLOV, Ivan Ivanovich;  
CHERNYAK, V.S., nauchnyy red.; SAZIKOV, M.I., red.;  
DORODNOVA, L.A., tekhn. red.

[Machines and apparatuses for the flame machining of  
metals; an album] Mashiny i apparatura dlia gazoplamen-  
noi obrabotki metallov; al'bom. Moskva, Proftekhizdat,  
1963. 122 p. (MIRA 16:8)

(Gas welding and cutting--Equipment and supplies)

(Flame hardening--Equipment and supplies)

VOSHCHANOV, K.P., inzh.

Exchange of experience acquired in the welding of cast iron.  
Svar. proizv. no.6:21-22 Je '63. (MIRA 16:12)

VOSHCHANOV, K.P.; YEGERMAN, B.G.

Volunteer-staffed University of the Scientific Technological Society of the Machinery Industry for increasing the qualifications of welding engineers and technicians. Svar.proizv. no.1:41-42 Ja '62. (MIRA 15:3)

1. Predsedatel' Metodicheskogo soveta zaochnykh kursov usovershenstvovaniya inzhenerno-tekhnicheskikh rabotnikov po tekhnologii i oborudovaniyu svarochnogo proizvodstva pri Obshchestvennom universitete Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Voshchanov). 2. Direktor Obshchestvennogo universiteta Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Yegerman).

(Welding Study and teaching)



VORONTSOVA, Ye.I., doktor med.nauk; KARACHAROV, T.S., inzh.;  
VOSHCHANOV, K.P., inzh.

Labor conditions and their improvement in the electric welding  
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S '61. (MIRA 14:8)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR (for  
Vorontsova, Karacharov). 2. Tsentral'nyye eksperimental'nyye  
svarochnyye masterskiye Vsesoyuznogo nauchno-issledovatel'skogo  
instituta avtogennoy obrabotki metallov (for Voshchancv).

(Aluminum—Welding)

(Welding—Hygienic aspects)

VOSHCHANOV, K.P., inzh.; VOLODIN, V.S., kand.tekhn.nauk

Consultations on readers' letters. Svar. proizv. no.3:48 Mr  
'62. (MIRA 15:2)

1. TSentral'nyye eksperimental'nyye svarochnyye masterskiye  
Vsesoyuznogo nauchno-issledovatel'skogo instituta avtojennoy  
obrabotki metallov (for Voshchanov). 2. Goskomitet Soveta  
Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (for  
Volodin).

(Welding)

VOSHCHANOV, K.P., inzh.; NIFONTOV, T.Ye., inzh.; GUZOV, S.G., kand.  
tekhn. nauk

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48 Ja '64. (MIRA 17:1)

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Vsesoyuznogo nauchno-issledovatel'skogo instituta avtojennoy  
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metallicheskoy zavod im. XXII s"yezda Kommunisticheskoy  
partii Sovetskogo Soyuza (for Nifontov). 3. Vsesoyuznyy  
nauchno-issledovatel'skiy institut avtojennoy obrabotki  
metallov (for Guzov).

VOSHCHANOV, Konstantin Pavlovich; KLEBANOV, G.N., kand. tekhn. nauk,  
red.; SOBOLEVA, G.N., red. izd-va; SMIRNOVA, G.V., tekhn. red.

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143 p. (MIRA 15:10)

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YOSHCHANOVA, G.K., arkhitektor; GORBUNOVA, V.A., arkhitektor;  
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[Furniture and equipment for public buildings; catalog based  
 on materials from the Exhibition of Furniture and Equipment  
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 obshchestvennykh zdaniy i sooruzheniy. 2. Chlen-korrespondent  
 Akademii stroitel'stva i arkhitektury SSSR (for GrADOV).  
 (Furniture--Catalogs) (Public buildings--Equipment and supplies)

BLAGOVIDOV, D.F.; VOSHCHANOVA, N.P. (Moskva)

Cases of retroperitoneal phlegmons. Khirurgiia 37 no.3:108-110  
Mr '61. (MIRA 14:3)  
(RETROPERITONEAL SPACE—DISEASES) (PHLEGMON)



VOSHCHANOVA, N.P., kand. med. nauk; SHISHKIN, S.S. (Moskva)

Prevention of repeated myocardial infarcts. Klin. med. 40 no.11:  
58-62 N'62 (MIRA 16:12)

VOSHCHANOVA, N.P.

Tuberculosis of the pancreas. Klin.med., Moskva no.3:75-77  
Mr '50. (CIWL 19:2)

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A.I.Abrikosov (Scientific Director -- Prof. L.M.Shabad,  
Corresponding Member AMS) of the Hospital imeni Botkin.

VOSCHANOVA, N. P.

VOSCHANOVA N. P.

Экспериментально-морфологические исследования лейкоза мыши.  
[Experimental morphological study of leukemia in mice]  
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1. Of the Laboratory of Oncology (Head—Corresponding Member A/S USSR Prof. L. M. Shabad) of the Institute of Normal and Pathological Morphology (Director Academician A. I. Abrikosov of the Academy of Medical Sciences USSR, Moscow.

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SO: Sum. No. 480, 9 May 55.

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Ye.G., red.; BUKOVSKAYA, N.A., tekhn. red.

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pensary service in their detection and treatment] Predra-  
kovye zabolevaniia zheludka i rol' dispanserizatsii v ikh  
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(MTA 17:11)

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retsenzents; FEDOROV, A.M., otv. red.

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tower pile drivers] Prokhodka vertikal'nykh stvolov s  
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VOSHCHENCHUK, A.F. (g. Khar'kov)

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timbering" Reviewed by A.F. Voshchenchuk. Ugol' 30 no. 7: 46-  
47 J1'55. (MIRA 8:10)

(Mine timbering) (Rozenberg, S.E.)



VOSHCHENKO, A.V.

Verifying the geometric axis of the shell of a rotary kiln by means of a transit. TSement 20 no.6:23 N-D '54. (MIRA 8:3)

1. Amvrosiyevskiy tsementnyy zavod No.1.  
(Kilns, Rotary)

VOSHCHENKO, B.I., inzh.; MERKULOVICH, V.A., inzh.

Mixing soil with binders and aggregates by the D-396 and D-445  
ground-crushing and mixing machines. Stroitel'no-mashinostr.  
4 no.10:16-17 O '59. (MIRA 13:2)  
(Roads, Soil-cement)

VOSHCHENKO, B.I., insh.

Control of evenness in mixing soil and bitumen. Avt.dor. 22  
no.6129 Ja '59. (MIRA 12:9)  
(Bituminous materials)

VOSHCHENKO, B.I., inzh.

Studying operations of the D-272 road milling cutter. Stroi. i  
dor.mashinostr. 3 no.11:22 N '58. (MIRA 11:11)  
(Road machinery)

YOSHCHENKO, B.I., inzh.; GUSHCHIN, V.D., inzh.; MARYSHEV, B.S., inzh.

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stabilization. Avt. dor. 27 no.2:20-21 F '64. (MIRA 17:3)

VOSHCHENKO, B.I.

Distribution of binders in the soil processed in mixing machines.  
Avt.dor. 21 no.10:7-8 0 '58. (MIRA 11:11)  
(Binding materials) (Mixing machinery)

VOSHCHENKO, B.I., kand.tekhn.nauk

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by the characteristics of the preparation of combined  
sandy loam on the roadbed. Avt.dor.i dor.stroi. no.1:52-  
60 '65. (MIRA 18:11)

VOSHCHENKO, B.I., inzh.; MERKULOVICH, V.A., inzh.

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4 no.11:21-23 N '59 (MIRA 13:3)  
(Road machinery)



YOSHCHENKO, B.I., inzhener.

Mixing soil and binding materials with the D-272 cutter. Stroil.1 dor.  
mashinostr. 2 no.3:10-11 Mr '57. (MLRA 10:5)  
(Mixing machinery) (Road machinery)

VOSHCHENKO, F.F.

With our Rumanian friends. Energetik 7 no.3:31-32 Nr '59.  
(MIRA 12:4)

(Rumania--Hydroelectric power stations)

SOV/91-59-3-14/22

14(6)

AUTHOR: Voshchenko, F.F.

TITLE: Labor Union Activities (Profsoyuznaya zhizn') -  
With Our Rumanian Friends (U nashikh rumynskikh  
druzey)

PERIODICAL: Energetik, 1959, Nr 3, pp 31-32 (USSR)

ABSTRACT: In 1958, builders of the Stalingrad hydro-electric  
plant (Stalingradskaya gidroelektrostantsiya) ex-  
changed delegations with the Bicaz hydro-electric  
plant imeni V.I. Lenin in the Rumanian People's Re-  
public. The Rumanian delegation consisted of the  
secretary of the Bicaz Party Committee, Mr. Gheorghe  
Condrea, Deputy Chairman of the Building Committee,  
Mr. Gheorghe Marchian, Member of the Building Commit-  
tee, Engineer Marin Manalache, Engineer Mihai Horcea  
from the Concrete Plant, and the leader of Concrete  
Team, Mr. Alexandru Velcu. In addition to visiting  
the construction site of the Bicaz hydro-electric  
plant, the Soviet delegation visited many places

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Labor Union Activities - With Our Rumanian Friends

during its 2-week stay, including București and Constanța. The construction works of the Bicăz hydro-electric plant located on the Bistrița River in Carpathian Mountains, were started in 1950 and will be finished by 1961. The storage lake will have a capacity of 1,230,000,000 cu meters; the total output of six turbogenerators will amount to 210,000 kw. In addition, a number of hydro-electric plants are planned to be built in a series on the Bistrița River.

Card 2/2

VOSHCHEENKO, V., polkovnik, sud'ya respublikanskoy kategorii

In a sharp struggle. Kryl. rod. 15 no.11:11 N '64.

(MIRA 18:3)

VOSHCHENKO, V., mayor: LAPIN, Yu, kapitan.

Morning physical exercises. Vest.Vozd.Fl. 34 no.10:52-54 0 '51.  
(Physical education and training, Military) (MLBA 8:3)

VOSHCHENKO, Z. S.

Voshchenko, Z. S. and Perlina, A. M. "Soft waters in municipal economy and living conditions," San. Tekhnika, Issue 2, 1948, p. 19-44

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

VOSHCHEV, G.P.

Antiskid systems for diesel locomotives need improvement.  
Elekt.i tepl. tiaga 5 no.10:38 O '61. (MIRA 14:10)

1. Pomoshchnik mashinista teplovoza depo Gudermes Severo-Kavkazskoy dorogi.  
(Diesel locomotives--Equipment and supplies)



CA

9

**Low alloy Bessemer railroad rails** P. A. Vorobiev, F. A. Petrushe, N. L. Sokolov, I. P. Pichukin, I. I. Shvachenko and I. M. Lefkin. *Tsvetn. Prikl. Met.* 11, No. 7, 34-41 (1939).--In steel decarburized with Fe-Mn and alloyed with Khalilov cast iron (Si 2.5-3.5, P not over 0.26%), the tensile strength, creep limit and hardness of the exptl. rails are considerably higher and the elongation and impact strength slightly lower than those of the ordinary rails. The macrostructure of the exptl. rails is nearly the same as, and the microstructure considerably better than, that of the ordinary rails. Rails to which Khalilov cast Fe had been added and to which Cr-Ni waste materials in the converter had been added showed no advantages over rails produced from steel to which only the Khalilov cast Fe had been added. Owing to the high cost of the Cr-Ni waste materials their addn. to steel is not recommended. Melting the Khalilov cast Fe in Bessemer cupola with an increased amt. of limestone causes no difficulties and produces low-alloy steels on a mass-production scale. For the production of steel of uniform chem. compn. the cast Fe should contain C 4.0-4.5, Mn 10-13, Si 2.5-3.5 and Cr 3.0-3.5%; the cupola charge should consist only of the Khalilov cast Fe. Mass production of the low-alloy rails requires no changes in the tech. process, except the raising of the temp. of the beginning of rolling to 1150°. The optimum compn. of steel contg. Cr 0.15-0.25% is C 0.42-48, Mn 0.75-0.95 and Si not less than 0.30%. The tensile strength of 70-85% of the low-alloy Bessemer steel rails is not less than 80 kg./sq. mm.

W. R. Henn

**ASB-56A METALLURGICAL LITERATURE CLASSIFICATION**

MATERIALS INDEX	PROCESS	PROPERTY	TEST METHOD	OTHER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																																																						
117 AND 2ND DOWELS																																																						
PROCESSES AND PREPARATION METHODS																																																						
<div style="float: right; font-size: 2em; margin-right: 20px;">9</div> <p>Production of low-alloy Bessemer-steel rails in the Dzerzhinskii plant. P. A. Vashchilo, P. A. Petrusha, S. I. Sologub, I. P. Filichkin, I. I. Shevchenko and I. M. Lefkin. <i>Tsvetnoye Praki. Met.</i> 11, No. 10-11, 70-3 (1939); <i>Ch. C. A.</i> 35, 5437. The mech. and metallographic properties of rails produced from 0.3-0.6% Cr steel were better than those of steels lower in Cr. Steel contg. Cr 0.3-0.6 and C not below 0.43% produces rails with a tensile strength of not less than 80 kg./sq. m. In spite of the high tensile strength the hardness of the rails is satisfactory even with a C content of 0.50%. The impact resistance at -20° is not less than that of ordinary rails. At normal temps. the impact resistance is slightly lower. A considerably greater impact resistance was obtained in rails to which Al had also been added and in rails contg. little Cr and deoxidized with ferrotitanium. The macrostructure of Cr-steel rails is considerably better than that of ordinary rails. The rails should contain not less than 0.44% C. The mech. properties of steels to which ferrochrome had been added in the cupola were better than those to which ferrochrome had been added directly to the converter. Best results are obtained from Khaklov cast Fe contg. C 4.0-4.5, Mn 10.0-12.5, Si 2.5-3.5, Cr 5.5-7.5 and P not over 0.26%. The optimum compn. of Cr rail steel is C 0.44-0.50, Mn 0.70-0.90, Si 0.20-0.30 and Cr 0.40-0.60%. W. R. Henn</p>																																																						
ASB-56A DETALLURGICAL LITERATURE CLASSIFICATION																																																						
<table border="1"> <tr> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> <td>117 AND 2ND DOWELS</td> </tr> </table>																										117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS	117 AND 2ND DOWELS
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VOSHCHILIN, A.A.; SIMONENKO, P.I.

Organization of rapid drifting. Ugol' Ukr. 4 no.8:38  
Ag '60. (MIRA 13:9)

1. Shakhtoupravleniye No.10 im. Volodarskogo.  
(Donets Basin--Coal mines and mining)

VOSHCHILKO, M.Ye.

Wild black currants in regions of the Salair Ridge. Biul.Glav.bot.sad  
no.52:103-105 '64. (MIRA 17:4)

1. TSentral'nyy sibirskiy botanicheskiy sad Sibirskogo otdeleniya  
AN SSSR, Novosibirsk.

VOSHCHININ, A., inzh.

The MAI motorboat. Za rul. 20 no.9:29 S '62. (MIRA 15:9)  
(Motorboats)

VOSHCHININ, A., inzh.

The third speed potentiality. Za rul. 20 no.1:29-30 Ja '62.  
(MIRA 15:2)

(Motorboats)

~~VOSCH~~ VOSHCININ, A.I.

SOKOLOV, K.M. YEVSTAFEYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.;  
VARENIK, Ye.I.; ONUPRIYEV, I.A.; SVESHNIKOV, I.P.; UKHOV, B.S.;  
BAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOYKO, A.G.; VALUTSKIY,  
I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVANOV, V.A.; YAZARINOV, V.M.;  
LEVI, S.S.; MALOLETKOV, Ye.K.; MEHENKOV, A.S.; MIROPOL'SKAYA, N.E.;  
OSIPOV, L.G.; PEREL'MAN, L.M.; PETROV, G.D.; PETROV, N.M.; POLYAKOV,  
V.I.; VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VERZHITSKIY, A.M.;  
VLASOV, P.A.; VOL'FSON, A.V.; VOSHCININ, A.I.; DZHUNKOVSKIY, N.N.;  
DOMBROVSKIY, N.G.; YERIPANOV, S.P.; YEFREMEYKO, V.P.; ZELICHENOK, G.G.;  
ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; REBROV, A.S.; SAPRYKIN, V.A.;  
SOVALOV, I.G.; SOSHIN, A.V.; STARUKHIN, N.M.; SURENYAN, G.S.; TOLORAYA,  
D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUNOV, I.P.

Andrei Vladimirovich Konorov; obituary. Mekh. stroi. 16 no.1:32 Ja  
'59. (MIRA 12:1)

(Konorov, Andrei Vladimirovich, 1890-1958)

VOSHCHININ, A. I.

VOSHCHININ, A. I. -- "CONTROL OF TWISTING MOMENTS AND SPEED OF ROTATION OF SHAFTS OF TURBOGEARING ON BUILDING CONSTRUCTION AND HIGHWAY-BUILDING MACHINES." SUB 5 MAR 52, INST OF MACHINE SCIENCE, ACAD SCI USSR (DISSERTATION FOR THE DEGREE OF DOCTOR IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952



VOSHCHININ, A. L.

LAPIDUS, Viktor Iosifovich, kandidat tekhnicheskikh nauk; PETROV, Vyacheslav Aleksandrovich, kandidat tekhnicheskikh nauk; OSTROVTSEV, A. N., kandidat tekhnicheskikh nauk, rezensent; VOSHCHININ, A. I., doktor tekhnicheskikh nauk, redaktor; BAUMAN, I. M., redaktor izdatel'stva; UVAROVA, A. F., tekhnicheskiiy redaktor

[Hydraulic transmission for automobiles] Gidravlicheskie transmissii avtomobilei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 383 p. (MLRA 10:5)  
(Automobiles--Transmission devices)

VOSHCHININ, A.I., kandidat tekhnicheskikh nauk.

Turbine transmission for construction winches. Mekh.stroi. 4  
no.12:9-14 D '47. (MLRA 9:3)  
(Winches)

VOSHCHININ, A.I., kandidat tekhnicheskikh nauk.

~~Modern concrete conveyers; automotive concrete mixers and~~  
dischargers. Mekh.stroi. 4 no.6:8-12 Je '47. (MIRA 9:2)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut Stroydormash.  
(Mixing machinery)

VOSHCHININ, A.I., kandidat tekhnicheskikh nauk.

~~\_\_\_\_\_~~

Turbo-transmission as applied to excavating machinery. Mekh.stroi.  
4 no.5:15-19 My '47. (MLRA 9:2)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut Stroydormash.  
(Excavating machinery--Transmission devices)

VOSHCHININ, A.I., kandidat tekhnicheskikh nauk; ZELENSKIY, Yu.S., inzhener.

Annular grinders for construction materials. Mekh.stroi. 4 no.4:  
16-21 Ap '47. (MLBA 9:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut otdela stroitel'-  
nogo i dorozhnogo mashinostroyeniya.  
(Milling machinery)

VOSHCHININ, A.I., kandidat tekhnicheskikh nauk.

New machine for unloading cement from closed freight cars.  
Mekh.stroi. 4 no.3:16-19 Mr '47. (MLRA 9:2)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut Stroydor-  
mash.

(Loading and unloading)

SEMICHASTNOV, Ivan Fedorovich, kandidat tekhnicheskoy nauk, dotsent;  
SHISHKIN, K.A., professor, retsenzent; YOSHOCHININ, A.I., doktor  
tekhnicheskikh nauk, professor, retsenzent; BLIZNYANSKIY, A.S.,  
inzhener, redaktor; MATVYEVA, Ye.N., tekhnicheskoy redaktor;  
SOKOLOVA, T.F., tekhnicheskoy redaktor

[Hydraulic transmissions in diesel locomotives] Gidravlicheskie  
peredachi teplovozov. Moskva, Gos. nauchno-tekhn. izd-vo mashino-  
stroit. lit-ry, 1956. 191 p. (MLRA 9:10)

(Hydraulic transmission)

(Diesel locomotives--Transmission devices)

VOSHCHININ, A.I.

[Hydraulic and pneumatic equipment for building and road construction machinery] Gidravlicheskie i pnevmaticheskie ustroistva na stroitel'nykh i dorozhnykh mashinakh. Moskva, Mashgiz, 1954. 332 p. (MLRA 7:12D)



1. VOSHCHININ, A. I.
2. USSR (600)
4. Building Machinery
7. Dissertation "Regulating rotation moments and speed of turbo-transmission shafts of building construction and road machinery." Izv. AN SSSR. Otd. tekhn. nauk. no. 8, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

VOSHCHININ, A.I.

Prevention of machinery overloading by means of fluid coupling.

Trudy Sem.teor.mash. 13 no.51:33-53 '53. (MIRA 7:1)

(Power transmission) (Hydraulic machinery)

VOISHCHININ, A. I.

PA 3 T20

USSR/Engineering  
Winches

Sep/Oct 1946

"Contemporary Mechanical Winches," A. I. Voshchinin,  
Candidate in Technical Sciences, 6½ pp

"Mekhanizatsiya Stroitel'stva" No 9/10

Discusses various types of winches and method of  
classification, i.e., friction type, two-drum type,  
etc. Explains the operation of the Soviet OKB-2-04,  
the S-188, etc. Mentions some particular uses to  
which these mechanized winches can be put, such as  
for operating provisional elevators, and some special  
adaptions of the winch, such as power take-off from  
trucks.

LC

38T20

VOSHCHININ, A. I., doktor tekhn. nauk

Analysis of and outlook for future development of turbo-transmissions building machines. Sbor. trud. MISI no.39: 350-354 '61.  
(MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo mashinostroyeniya.

(Gearing)

(Building machinery—Equipment and supplies)

VOSHCHININ, A.I.; SAVIN, I.F.

[Hydraulic and pneumatic systems of construction and road machinery] Gidravlicheskie i pnevmaticheskie ustroistva na stroitel'nykh i dorozhnykh mashinakh. Moskva, Mashinostroenie, 1965. 451 p. (MIRA 18:4)

VOSHCHININ, A.P., inzhener.

Simplified method for calculating leakage of earth dams. Gidr.stroi.  
26 no.8:34-36 Ag '57. (MIRA 10:10)

(Dam)

VOSHCHININ, A.P., inzh.

Method of seepage calculations in designing earth dams. Trudy  
Gidroproekta 2:57-77 '59. (MIRA 13:7)

1. Nauchno-issledovatel'skiy sektor Vsesoyuznogo proyektno-  
izyskatel'skogo i nauchno-issledovatel'skogo instituta  
"Gidroproyekt" im. S.Ya.Zhuk.  
(Dams) (Soil percolation)

VOSHCHININ, A.P., inzh.; OGURTSOV, A.I., kand.tekhn.nauk; SEVAST'YANOV, V.I.,  
inzh.

Filling rock embankments with sand by hydraulic methods. Gidr.stroi.31  
no.2:27-31 P '61.

(Dams)

(MIRA 14:3)



ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;  
 BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULIN, M.Z.; BURAKOV,  
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;  
 GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT,  
 Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.;  
 GORBACHEV, V.N.; GRZHIB, B.V.; GHEKULOV, L.F., kand. s.-kh. nauk;  
 GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,  
 Ya.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNOVUKOV, M.D.; ZHOLIK,  
 A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;  
 KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.;  
 KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;  
 KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;  
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSEKOVICH, K.F.; MEL'NICHENKO,  
 K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;  
 MUSIYEVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;  
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,  
 G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; RHEZOV, N.P.;  
 ROZANOV, M.P., kand. biol. nauk; ROZEGOV, A.G.; RUBINCHIK, A.M.;  
 RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;  
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,  
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA,  
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;  
 TSISHNEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN,  
 N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,  
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,  
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUMER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LEVIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRZHKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; HUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,  
tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.  
red.

[Volga-Don; technical account of the construction of the V.I. Lenin  
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,  
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-  
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-  
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v plati  
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural  
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.  
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-  
struction. Specialized operations in hydraulic engineering] Orga-  
nizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.  
(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- . U.S.S.R.) Ministerstvo elektrostantsii, Byuro  
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-kor-  
respondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy  
chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin,  
Razin).

(Volga Don Canal—Hydraulic engineering)

PA 19/49T49

USSR/Engineering

Nov/Dec 48

Dams

Mathematics, Applied

"Design of Homogeneous Earthen Dams, Constructed  
on a Permeable Foundation," A. P. Voshchinin,  
Moscow, 8 pp

"Prikladnaya Matematika i Mekh" Vol XIII, No 6

Discusses solutions of filtration problems a-  
rising in the design of homogeneous earthen  
dams with permeable foundations of any depth.  
Submitted 6 Jun 41.

FDB

19/49T49

<div style="display: flex; justify-content: space-between;"> <span>1st and 2nd copies</span> <span>PROCESSED AND FORWARDED UNDER</span> <span>NO. 100-100000</span> </div>									
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>AMR</p> <p>June 49</p> </div> <div style="width: 60%; text-align: center;"> <h2>Soil Mechanics,</h2> <h3>Suppage 31</h3> </div> <div style="width: 20%; text-align: right;"> <p>100-100000</p> </div> </div>									
<p>205. A. P. Vashchinskii, "Design of homogeneous earth dams built on pervious foundations," (in Russian), <i>Appl. Math. Mech.</i>, <i>Pril. Mat. Mekh.</i>, Nov.-Dec. 1948, v. 4, no. 12, pp. 761-768.</p> <p>The paper presents a mathematical analysis of two-dimensional seepage through a homogeneous earth dam provided with a rock toe and built on a pervious foundation of the same permeability as the dam. The pervious foundation is underlain by an impervious material.</p> <p>The solution is obtained in terms of elliptic and hyperbolic functions by means of conformal representation by the method of Inghenry. Mathematical difficulties require two modifications of the actual boundary conditions: the upper surface of the foundation upstream of the dam is taken at the water level, and the straight horizontal boundary of the impervious layer is replaced by a curved one. The error introduced by these changes is shown to be small when the thickness of the pervious layer is several times greater than the head. Two numerical examples are added.</p> <p style="text-align: right;">A. Hrennikov, URS</p>									
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>100-100000</p> <p>100-100000</p> </div> <div style="width: 60%;"> <p>100-100000</p> <p>100-100000</p> </div> </div>									

VOSHCHININ, L.I., doktor tekhn. nauk, prof., otv. red. vypuska

[Hydraulic drive] Gidreprivod. Moskva, Izd-vo AN SSSR.  
Pt.1. [Hydrodynamic transmissions (basic concepts, elements  
of hydrodynamic transmissions, hydraulic couplings, hydro-  
dynamic torque converters): Terminology] Gidrodinamicheskie  
peredachi (osnovnye poniatia, elementy gidrodinamicheskikh  
peredach, gidrodinamicheskie mufty, gidrodinamicheskie  
transformatory): Terminologiya. 1963. 24 p. (Sbornik rekomenduemykh terminov, no.63) (MIRA 16:11)

1. Akademiya nauk SSSR. Komitet nauchno-tekhnicheskoy terminologii.  
(Oil hydraulic machinery)

VOSHCHININ, N.P., kand.tekhn.nauk

Prospects for the development of tamping machines for  
soil compaction. Stroi. i dor. mash. 7 no.8:4-7 Ag '62.  
(MIRA 15:9)

(Soil stabilization)



VOSHCHININ, N.P., kandidat tekhnicheskikh nauk.

Selecting basic parameters for the working parts of tamping machines  
for soil consolidation. Strel. i der. mashinestr. no.7:10-13 J1 '56.  
(Soil stabilization) (MLRA 9:10)

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[Road machinery and equipment; machinery and plants for making pavements] Dorozhnye mashiny i oborudovanie; mashiny i zavody dlia postroiki dorozhnykh pokrytii. Pod obshchei red. I.A.M. Pikovskogo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 604 p. (MIRA 14:1)

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ZHURAVLEV, A.A., kand. sel'khoz. nauk; KARAVYANSKIY,  
N.S., kand. sel'khoz. nauk; SHAIN, S.S., doktor sel'-  
khoz. nauk, prof.[deceased]; YATSUK, Ye.P., kand. tekhn.  
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[Seed production of meadow grasses] Semenovodstvo lugovykh  
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So: Veterinariya; 23; (12); December 1946; Uncl.  
TABCON

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VOSHCHININ, V.P. Kazakstan. Leningrad, Gosizdat, 1929. 90 p.  
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DLC: HC487.K3V6

SO: LC, Soviet Geography, Part II, 1951/Unclassified.

VOSHCHININ, Viktor Vasil'yevich

Designing-Engineering

Order of Mark of Honor

Soviet Source: N: Red Fleet #176, 29 July 47, Moscow

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 30385.

7

Fractional determination of chlorate, bromate and iodate ions. N. A. Tananayev and M. S. Voshehinskaya. *J. Applied Chem. (U. S. S. R.)* 10, 1113 21 (in French 1121) (1937).—The detection of the above ions in the presence of Cl, Br, I and SO<sub>4</sub> ions was investigated. (a) Treat 5 cc. of sample with 1 N AgNO<sub>3</sub> while shaking and cooling, until complete pptn., add 1-2 cc. more, decant or filter, add to the filtrate Zn dust, 1-2 cc. of H<sub>2</sub>SO<sub>4</sub> (1:1), shake, allow to stay for a min., add 3-4 cc. of concd. HNO<sub>3</sub> and boil until a gray ppt. of Ag dissolves and forms a white AgCl ppt. Wash the ppt. 3 times with cold water, add a satd. KIO<sub>4</sub> soln. (0.5 cc. at time) until no white ppt. forms, add 3-4 cc. in excess, boil for 1 min., decant the soln., add to the decantate 2-3 cc. of HNO<sub>3</sub> (1:1) and 1 cc. of satd. Mn(NO<sub>3</sub>)<sub>2</sub> and boil for 2 min. The formation of the brown ppt. of MnO<sub>2</sub> (H<sub>2</sub>MnO<sub>4</sub>) shows the presence of BrO<sub>3</sub> ion. (b) Add 5 cc. of satd. NaCl soln. to 5 cc. of the sample and one drop of concd. alkali. Boil for a min., filter and wash the ppt. twice with boiling water. Dissolve the ppt. in 2-3 cc. of hot 4 N HCl, add 1 cc. of 7 N H<sub>2</sub>SO<sub>4</sub> and 2 cc. of 0.5 N NH<sub>4</sub>CNS. A yellow or reddish brown color, depending on the amt. of sepl. I<sub>2</sub> indicates the presence of IO<sub>3</sub> ion in the sample. A. A. P.

ASH-55A METALLURGICAL LITERATURE CLASSIFICATION

Ca

Volumetric determination of chlorides by the Volhard method after a preliminary reduction with zinc in acid solution to chloride. N. A. Tomanov and M. N. Vishchinskaya. *J. Appl. Chem. (U. S. S. R.)* 11, 1202 (in French 1958).—Take 50 cc. of approx. 0.1 N chloride with 50 cc. of concd.  $H_2SO_4$ . Shake for 5 min. Add to 100 cc. Filter through a dry filter, rejecting the first 5 cc. To 50 cc. of the filtrate add 50 cc. of 0.1 N  $AgNO_3$ . Shake until the ppt. settles. Add 2 cc. of ferric alum soln. and titrate slowly with 0.1 N  $KCN$  soln. (or  $NH_4CNS$ ). The accuracy of the method is 0.2%.

A. A. Pulgorny

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND DEGREE		PROCESS AND PROPERTIES INDEX		TOP AND 4TH DEGREE	
CA				2	
<p>Equilibrium reactions having high constants. N. A. Tatarsky and M. N. Kamshinsky. <i>Zhurnal Khim. Fiz.</i> 36:1000-1001 (1960). The reactions <math>\text{AgCl} + \text{AgI} \rightleftharpoons \text{AgCl} + \text{AgI}</math>, <math>\text{AgCl} + \text{AgI} \rightleftharpoons \text{AgCl} + \text{AgI}</math>, <math>\text{AgCl} + \text{AgI} \rightleftharpoons \text{AgCl} + \text{AgI}</math>, and <math>\text{AgCl} + \text{AgI} \rightleftharpoons \text{AgCl} + \text{AgI}</math> proceed to the right, 100% in 10 min. at 22°. For the third reaction the formation of <math>\text{AgCl}</math> goes to 100% in the presence of any excess <math>\text{CrCl}_3</math>. The reaction <math>\text{AgFe}(\text{CN})_6 + \text{HAgCl}</math> goes 92.5% to the right and <math>L_p = 0.70 \times 10^{-10}</math> for <math>\text{AgFe}(\text{CN})_6</math>. The reaction <math>\text{AgFe}(\text{CN})_6 + 4\text{AgI}</math> could be studied from the right to the left only and it proceeded to 9.8% and <math>L_p = 1.13 \times 10^{-10}</math> for <math>\text{AgFe}(\text{CN})_6</math>. B. Z. Kamch</p>					
ASTM-SLS METALLURGICAL LITERATURE CLASSIFICATION					
FROM SYNONYM		TO SYNONYM		COLLECTION	
10000 10000 10000		10000 10000 10000		10000 10000 10000	



KHODAKOVA, W.I.; ABRAMOVA, I.G.; VOSHOCHINSKAYA, N.P.

Some data for the study of diphylobothriasis in Turukhansk and Igarka Districts of Krasnoyarsk Territory. Med. parazit. i parazit. bol. 34 no.2:139-145 Mrtip '65. (MIRA 13:11)

1. Gel'antologicheskii otdel Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martynovskogo Ministerstva zdravookhraneniya SSSR i krayevaya sanitarno-epidemiologicheskaya stantsiya Krasnoyarska.

VOSHCHINSKAYA, N.V.

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SO: SUM 168, 22 July 1954

L 03011-67 FWT(d)/FWT(m)/FWP(v)/T/FWP(t) ETI/ETP(k)/EWP(h)/EWP(l)

ACC NR: AP6023435 JD/HM

SOURCE CODE: UR/0135/66/000/007/0001/0003

AUTHOR: Baranov, M. S. (Candidate of technical sciences); Afanas'yev, V. N. (Engineer); Voshchinskiy, M. L. (Engineer); Vaynshteyn, R. M. (Engineer); Nedel'chik, E. V. (Engineer); Taganov, Yu. I. (Engineer); Geynrikhs, I. N. (Engineer)

ORG: All-Union Extramural Machine Building Institute (Vsesoyuznyy zaochnyy mashinostroitel'nyy institut)

TITLE: Laser welding of some metals 14

SOURCE: Svarochnoye<sup>25</sup> proizvodstvo, no. 7, 1966, 1-3

TOPIC TAGS: laser application, laser welding / SU-1 laser welder, 1Kh18N9T steel, KO steel 24 10

ABSTRACT: The results of laser welding of fillet joints of copper and L-62 silver coated brass with 1Kh18N9T steel, KO steel and copper are presented. The SU-1 laser welder (shown in photograph) was used to weld thin wires [ $d < 0.1$  mm] attached to semiconductive and microelectronic devices. The unit power input is regulated by adjusting various object lenses with focal distances of 10, 20, 40, and 50 mm. Unit power input is calculated by the formula  $g = W^2/tP$  where  $W^2$  is the energy of radiation considering the losses in the optic system in joules;  $t$  is the pulse time in sec and  $P$  is the focal area in  $cm^2$ . The weld penetration and width are proportional to the maximum volt-

UDC: 621.791.72:535.14:669.15-194

Card 1/2

L 03011-67

ACC NR: AP6023435

age of the condenser battery. This relationship is shown in a table for U8A steel where focal distance is 20 mm. Another test was carried out on strips of U8A steel with a thickness of 2.6 mm (surface condition of the 10th class in accordance with GOST 2789-59) in order to determine the relationship between width and penetration of the welds and the defocusing. These tests showed that when  $\Delta f = 0.75$ , the weld penetration was  $\max h = 22 \mu$ . Overlap welding was carried out on copper with L-62 brass, with non-coated brass, 1Kh18N9T stainless steel, KO low-carbon steel and finally on copper wires. Without stripping the insulation [M1] copper wire of  $d = 0.05$  mm was welded to a silver-coated brass rod of  $d = 0.5$  mm. Neither of these specimens showed cracks in the welds. However, microporosity was indicated in some of the specimens. Shear strength tests of the welds were carried out on two types of welds: without stripping the insulation from the copper wire and with bare wire. The first specimens had an average shear strength of  $25.3 \text{ kg/mm}^2$  while for the second type, a shear strength of  $26 \text{ kg/mm}^2$ . The small difference makes it feasible to recommend this welding process without stripping the insulation. A comparative test of the laser-welded and braced joints was made. The latter showed an average strength 13% less than the welded joints. The authors conclude that the laser-welded joints have considerably better mechanical properties than the soldered joints. This is due to the smaller heat-affected zone. Orig. art. has: 6 figures, 1 table.

SUB CODE: 13,20/ SUBM DATE: none

Joining of dissimilar metals 18

Card 2/2 aww

VOSHCHANOV, K. P.

USSR/Metallurgy - Welding, Caustic  
Embrittlement

Jul 52

PA 233742  
"Welding Up the Cracks Caused by Caustic Embrittle-  
ment in Drums of Steam Boilers," K. P. Voshchanov,  
Engr, Cen Exptl Welding Shop of Glavkislord

"Avtogen Delo" No 7, pp 21-23

Discusses development of cracks in riveted joints  
and outlines methods for repairing damaged equipment.  
Describes expts for welding up caustic embrittlement  
cracks in all-forged or all-welded drums of high-  
pressure boilers. Concludes that this type of boiler  
may be repaired by welding. Preliminary removal of

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all damaged portions of plate is required for obtain-  
ing good results. Insert has to be welded in when  
vol of damaged metal is large.

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BC

2 II 1

Decarboxylation of resorcinol and phenol present together in sulphite melts. M. M. ROMANJAKIN and V. N. VOSEKARYA. (Anilinokres. Prom., 1933, 3, 457-459).—A quantity of the melt, containing 3-0.3 g. of PhOH, 2 g. of NaHSO<sub>3</sub>, and 0.008-0.1 g. of resorcinol (I), is boiled with 1% H<sub>2</sub>SO<sub>4</sub> to remove SO<sub>2</sub> (3 hr.) and (I) is determined by Restorova and Gofman's method (cf. preceding abstract). R. T.

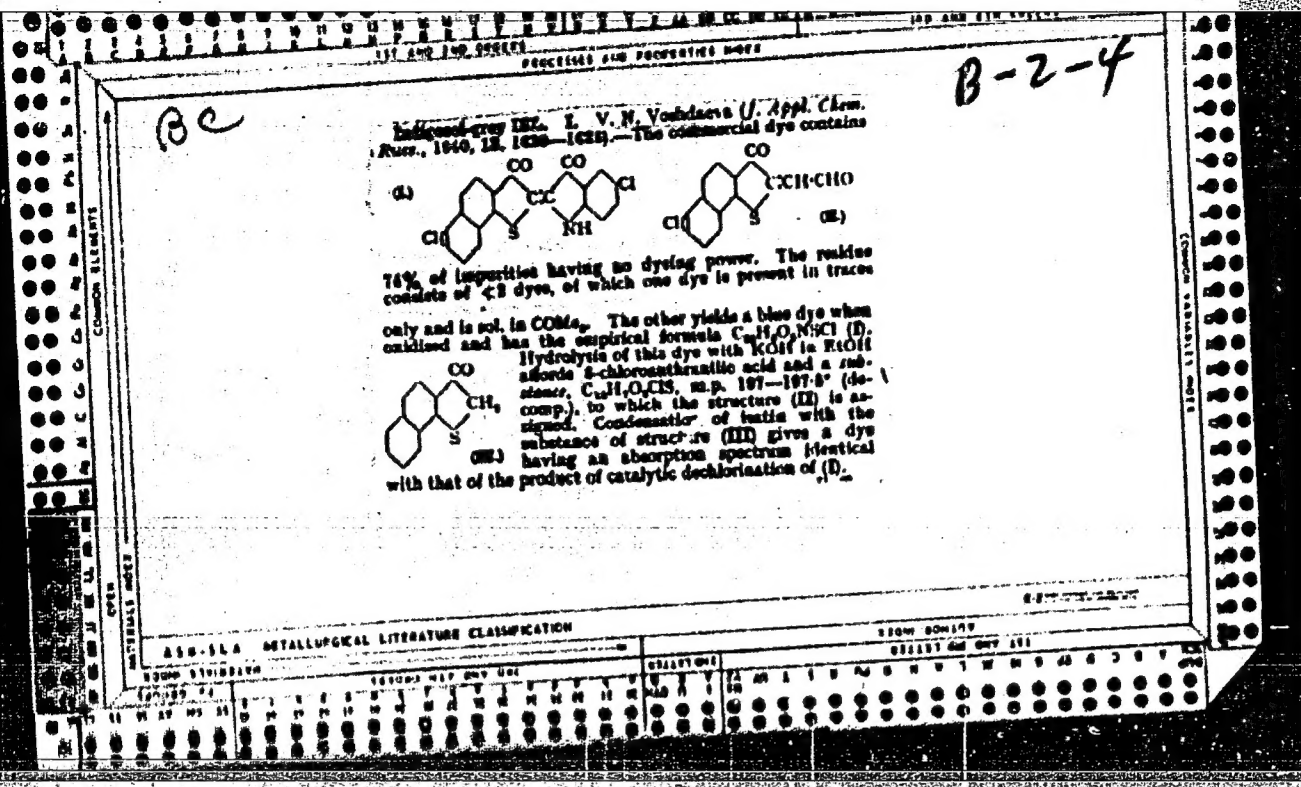
ASS-SEA METALLURGICAL LITERATURE CLASSIFICATION

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VOSHDAEVA, V. N.,  
R. K. EICHMAN, (Anilinokras. Prom., 1934, 4, 523-531)

VOSHDEEVA, V. N.,  
R. K. EICHMAN, (Anilinokras. Prom., 1934, 4, 461-472)





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VOSHEDCHENKO, B.M.

Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Polycrystalline Compounds E-9

Also known as: Zhur - Fizika, No. 2, 1957 No. 3010

Card : 1/1

KONTOROVICH, I.Ye., doktor tekhnicheskikh nauk, professor; VOSHEDCHENKO,  
B.M., kandidat tekhnicheskikh nauk.

Role of microstructure in the physical characteristics of brittleness. Metalloved. i obr.met. no.1:35-37 Ja '57. (MLBA 10:2)

1. Moskovskiy aviatsionnyy tekhnologicheskiy institut.  
(Steel, Structural--Metallography)  
(Steel--Brittleness)